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A Study of Bird and Bat **Collision** Fatalities at the Mountaineer Wind Energy Center, Tucker County, ... - group of 2 »
J Kerns, P Kerlinger - Prepared for FPL Energy and Mountaineer Wind Energy Center ..., 2004 - responsiblewind.org
... of carcasses that may be present beneath a **turbine**. A detection **probability** was calculated to estimate the total ... A total of 30 **avian** carcasses were used in the ...
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Remote techniques for counting and estimating the number of bird–wind **turbine** collisions at sea: a ... - group of 2 »
M DESHOLM, AD FOX, PDL BEASLEY, J KAHLERT - Ibis, 2006 - Blackwell Synergy
... radar data defining the **probability** distribution/proportion of ... of distance to nearest **turbine**, the proportion (r 2 ... radars or modified **avian** research laboratory ...
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Examples of statistical methods to assess risk of impacts to birds from wind plants - group of 2 »
WP Erickson, MD Strickland, GD Johnson, JW Kern - Proceedings of the National **Avian**-Wind Power Planning ..., 2000 - nationalwind.org
... at a plot is lower for **turbine** than non-**turbine** plots, and ... The **probability** of RWBL presence at a plot is ... 174 National **Avian** — Wind Power Planning Meeting III ...
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... : The effect of avoidance rates on bird mortality predictions made by wind **turbine** **collision** risk ... - group of 4 »
DE Chamberlain, MR Rehfisch, AD Fox, M Desholm, SJ ... - Ibis, 2006 - Blackwell Synergy
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Impacts of **avian** collisions with wind power turbines: an overview of the modelling of cumulative ... - group of 2 »
I Smales - deh.gov.au
... a measurable and significant effect on extinction **probability**. ... the cumulative effects of wind **turbine** collisions might ... risk modelling for **avian** collisions at ...
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[BOOK] Avian Collision and Electrocution: An Annotated Bibliography - group of 2 »
E Hebert, E Reese - 1995 - safewind.info
... of a California Energy Commission (CEC) workshop on wind **turbine** effects on ... Of 147 documented **avian** **collision** and electrocution incidents at California wind ...
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DETERMINATION OF NEARSHORE SEABIRD DENSITY ON THE UPPER TEXAS COAST - group of 2 »
F REPORT - seco.cpa.state.tx.us
... The **probability** of a bird-rotor **collision** is ... to the range of bird-wind **turbine** **collision** mortality currently ... permit direct comparison between **avian** density and ...
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Mortality of Bats at a Large-scale Wind Power Development at Buffalo Ridge, Minnesota - group of 3 »
GD JOHNSON, WP ERICKSON, M DALE STRICKLAND, MF ... - The American Midland Naturalist - bioone.org
... the habitat proportions for each **turbine** plot were ... **collision** mortality of nocturnal
avian migrants (Manville ... lights on turbines increased the **probability** of bat ...
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Avian and Bat Mortality During the First Year of Operation at the Klondike Phase I Wind Project, ...
NW Power, G Johnson, W Erickson, J White, R ... - west-inc.com
... by a scavenger), and was observed (**probability** of detection). ... area of the 660 kW
Vestes **turbine** (1661 m ... Table 4. Estimated **avian collision** fatality rates at US ...
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Session: Monitoring wind **turbine** project sites for **avian** impacts
W Erickson - Conference: Proceedings of the Wind Energy and Birds/Bats ..., 2004 - osti.gov
... scientifically sound monitoring programs for **avian** mortality – how ... estimate of the
average **probability** a wind ... carcasses located away from **turbine** strings may ...
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1   Courses: State of the art in interactive ray tracing
Peter Shirley
July 2006 **Material presented at the ACM SIGGRAPH 2006 conference SIGGRAPH '06**
Publisher: ACM Press
Full text available: 📄 pdf(14.08 MB)   Additional Information: full citation, abstract

> Recent improvements in computer hardware have allowed ray tracing to be used in some interactive applications. The trends in architecture and expansions of geometric model should increase the use of interactive ray tracing. This course presents recent and often not-yet published work on interactive ray tracing.

2   Software safety: why, what, and how
Nancy G. Leveson
June 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(4.18 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

> Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new software research area, emphasis is placed on delineating the outstanding issues and research topics.

3   Level set and PDE methods for computer graphics
David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(17.07 MB)   Additional Information: full citation, abstract, citings

> Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

4   Session 8: Topology preserving surface extraction using adaptive subdivision
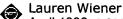Gokul Varadhan, Shankar Krishnan, TVN Sriram, Dinesh Manocha
July 2004 **Proceedings of the 2004 Eurographics/ACM SIGGRAPH symposium on Geometry processing SGP '04**
Publisher: ACM Press

Full text available: pdf(325.41 KB)   Additional Information: full citation, abstract, references, index terms

We address the problem of computing a topology preserving isosurface from a volumetric grid using Marching Cubes for geometry processing applications. We present a novel topology preserving subdivision algorithm to generate an adaptive volumetric grid. Our algorithm ensures that every grid cell satisfies two local geometric criteria: a complex cell criterion and a star-shaped criterion. We show that these two criteria are sufficient to ensure that the surface extracted from the grid using Marchi ...

5 A trip report on SIGSOFT '91
Lauren Wiener
April 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 2
Publisher: ACM Press
Full text available: pdf(1.59 MB)   Additional Information: full citation, index terms

6 Papers: A self-learning universal concept spotter
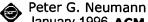Tomek Strzalkowski, Jin Wang
August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 2**
Publisher: Association for Computational Linguistics
Full text available: pdf(589.28 KB)   Additional Information: full citation, abstract, references, citings

We describe the Universal Spotter, a system for identifying in-text references to entities of an arbitrary, user-specified type, such as people, organizations, equipment, products, materials, etc. Starting with some initial seed examples, and a training text corpus, the system generates rules that will find further concepts of the same type. The initial seed information is provided by the user in the form of a typical lexical context in which the entities to be spotted occur, e.g., "the name end ...

7 Illustrative risks to the public in the use of computer systems and related technology
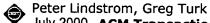Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(2.54 MB)   Additional Information: full citation

8 Image-driven simplification
Peter Lindstrom, Greg Turk
July 2000 **ACM Transactions on Graphics (TOG)**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(1.98 MB)   Additional Information: full citation, abstract, references, citings, index terms

We introduce the notion of image-driven simplification, a framework that uses images to decide which portions of a model to simplify. This is a departure from approaches that make polygonal simplification decisions based on geometry. As with many methods, we use the edge collapse operator to make incremental changes to a model. Unique to our approach, however, is the use at comparisons between images of the original model against those of a simplified model to determine the ...

Keywords: image metrics, level-of-detail, polygonal simplification, visual perception

9 Risks to the public in computer systems
Peter G. Neumann
October 1986 **ACM SIGSOFT Software Engineering Notes**, Volume 11 Issue 5
Publisher: ACM Press

Full text available: pdf(2.19 MB)   Additional Information: full citation, index terms

10 Protein structure prediction and potential energy landscape analysis using continuous global minimization

Ken A. Dill, Andrew T. Phillips, J. Ben Rosen

January 1997 **Proceedings of the first annual international conference on Computational molecular biology**

Publisher: ACM Press

Full text available: pdf(981.78 KB)   Additional Information: full citation, references, citings, index terms

11 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(1.65 MB)   Additional Information: full citation, citings, index terms

12 Applications

Gordon E. Stokes

January 1970 **Proceedings of the 1970 25th annual conference on Computers and crisis: how computers are shaping our future ACM '70 , Computers and crisis**

Publisher: ACM Press

Full text available: pdf(532.16 KB)   Additional Information: full citation, abstract

Mr. Kaplan spoke of nuclear reactors as a promise to the world, and a challenge to the computer community.

13 Computers in transportation

Robert B. Curry

January 1970 **Proceedings of the 1970 25th annual conference on Computers and crisis: how computers are shaping our future ACM '70 , Computers and crisis**

Publisher: ACM Press

Full text available: pdf(510.15 KB)   Additional Information: full citation, abstract

The transportation industry is generally a long-time and quite experienced user of computer systems. The individual presentations are given here in compact form.

14 Collision detection for volumetric objects

Taosong He, Arie Kaufman

October 1997 **Proceedings of the 8th conference on Visualization '97**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.17 MB)   Additional Information: full citation, references, citings, index terms
Publisher Site

Keywords: collision probability, distance map, octree, sphere tree, surface crossing probability, virtual reality, volume graphics, volume rendering, volume visualization, volumetric collision

15 Receiver-initiated collision avoidance in wireless networks

J. J. Garcia-Luna-Aceves, Asimakis Tzamaloukas

March 2002 **Wireless Networks**, Volume 8 Issue 2/3
Publisher: Kluwer Academic Publishers

Full text available: pdf(328.56 KB)   Additional Information: full citation, abstract, references, citings, index terms

Many medium-access control (MAC) protocols for wireless networks proposed or implemented to date are based on collision-avoidance handshakes between sender and receiver. In the vast majority of these protocols, including the IEEE 802.11 standard, the handshake is sender initiated, in that the sender asks the receiver for permission to transmit using a short control packet, and transmits only after the receiver sends a short clear-to-send notification. We analyze the effect of making the collisio ...

Keywords: MAC, Medium Access Control, ad hoc networks, collision avoidance, performance analysis, receiver-initiated, wireless

16 Algorithms: Time-critical collision detection using an average-case approach
Jan Klein, Gabriel Zachmann
October 2003 **Proceedings of the ACM symposium on Virtual reality software and technology**
Publisher: ACM Press

Full text available: pdf(774.38 KB)   Additional Information: full citation, abstract, references, index terms

We present a novel, generic framework and algorithm for hierarchical collision detection, which allows an application to balance speed and quality of the collision detection.We pursue an average-case approach that yields a numerical measure of the quality. This can either be specified by the simulation or interaction, or it can help to assess the result of the collision detection in a time-critical system.Conceptually, we consider sets of polygons during traversal and estimate probabilities that ...

Keywords: average-case algorithms, bounding volume trees, hierarchical data structures, hierarchical partitioning, interference detection, probabilistic analysis, virtual prototyping

17 Reversing the collision-avoidance handshake in wireless networks
J. J. Garcia-Luna-Aceves, Asimakis Tzamaloukas
August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**
Publisher: ACM Press

Full text available: pdf(1.44 MB)   Additional Information: full citation, references, citings, index terms

18 Modeling of collision avoidance protocols in single-channel multihop wireless networks
Yu Wang, J. J. Garcia-Luna-Aceves
September 2004 **Wireless Networks**, Volume 10 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: pdf(271.77 KB)   Additional Information: full citation, abstract, references, index terms

Although there has been considerable work on the performance evaluation of collision avoidance schemes, most analytical work is confined to single-hop ad hoc networks or networks with very few hidden terminals. We present the first analytical model to derive the saturation throughput of collision avoidance protocols in multi-hop ad hoc networks with nodes randomly placed according to a two-dimensional Poisson distribution. We show that the sender-initiated collision-avoidance scheme achieves ...

Keywords: IEEE 802.11, ad hoc networks, analytical modeling, collision avoidance, medium access control, simulation evaluation

19 Hierarchy schedule-sensing protocol for CDMA wireless data-centric networks with
multiple packet collision and capture effect
Hsiao-Hwa Chen, Wee-Teck Tea
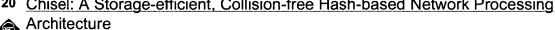December 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 6
Publisher: IEEE Press
Full text available: pdf(905.47 KB)   Additional Information: full citation, abstract, references, index terms

> This paper focuses on performance analysis of a CDMA wireless data network based on
> hierarchy schedule-sensing (HSS) protocol, in which a common-code permission frame
> beacon is used to schedule request transmissions to avoid packet collisions. To further
> reduce scheduling delay, hierarchical group-based coding is adopted in the scheme. The
> performance of such a network is evaluated considering packet collisions with and without
> packet capture effect using a two-dimensional Markovian chain model. ...

> **Keywords**: CDMA, capture effect, medium-access control, wireless network

20 Chisel: A Storage-efficient, Collision-free Hash-based Network Processing
Architecture
Jahangir Hasan, Srihari Cadambi, Venkatta Jakkula, Srimat Chakradhar
May 2006 **ACM SIGARCH Computer Architecture News , Proceedings of the 33rd
annual international symposium on Computer Architecture ISCA '06**, Volume
34 Issue 2
Publisher: IEEE Computer Society, ACM Press
Full text available: pdf(450.93 KB)   Additional Information: full citation, abstract, index terms

> Longest Prefix Matching (LPM) is a fundamental part of various network processing tasks.
> Previously proposed approaches for LPM result in prohibitive cost and power dissipation
> (TCAMs) or in large memory requirements and long lookup latencies (tries), when
> considering future line-rates, table sizes and key lengths (e.g., IPv6). Hash-based
> approaches appear to be an excellent candidate for LPM with the possibility of low power,
> compact storage, and O(1) latencies. However, there are two key probl ...

> **Keywords**: IP Lookup, Packet Classification, Hash Tables, Bloom Filters, Longest Prefix
> Matching.

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Title	**A mathematical model of bird collisions with wind turbine rotors**
Creator/Author	Tucker, V.A. [Duke Univ., Durham, NC (United States). Dept. of Zoology]
Publication Date	1996 Nov 01
OSTI Identifier	OSTI ID: 438771
Other Number(s)	JSEEDO; ISSN 0199-6231
Resource Type	Journal Article
Resource Relation	Journal of Solar Energy Engineering ; VOL. 118 ; ISSUE: 4 ; PBD: Nov 1996
Subject	17 WIND ENERGY ; WIND TURBINES; BIOLOGICAL EFFECTS; MATHEMATICAL MODELS; ROTORS; BIRDS; MORTALITY

Description/ Abstract	When a bird flies through the disk swept out by the blades of a wind turbine rotor, the probability of collision depends on the motions and dimensions of the bird and the blades. The collision model in this paper predicts the probability for birds that glide upwind, downwind, an across the wind past simple one-dimensional blades represented by straight lines, and upwind and downwind past more realistic three-dimensional blades with chord and twist. Probabilities vary over the surface of the disk, and in most cases, the tip of the blade is less likely to collide with a bird than parts of the blade nearer the hub. The mean probability may be found by integration over the disk area. The collision model identifies the rotor characteristics that could be altered to make turbines safer for birds.

Country of Publication	United States
Language	English
Format	pp. 253-262 ; PL:
System Entry Date	2001 May 05

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EAST Search History

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☐   1. **Wind Companies Working to Reduce Avian Collisions at the Altamont Pass; Companies Take Unprecedented Step of Proposing "Seasonal Shutdowns" to Minimize Bird Mortalities**
     Business Wire. New York: Mar 3, 2005. p. 1

        📄 Full text   📖 Abstract

☐   2. **FPL Energy to Continue Aggressive Actions to Reduce Avian Collisions in the Altamont Pass Wind Resource Area**
     Business Wire. New York: Feb 23, 2005. p. 1

        📄 Full text   📖 Abstract

☐   3. **FAA to Boost Sizes Of Birds It Uses In Engine Testing --- Aircraft Ingestion of Fowl Can Cause Major Mishaps; Avian Collisions Are Up**
     By Anna Wilde Mathews. **Wall Street Journal (Eastern edition).** New York, N.Y.: Dec 21, 1998. p. 1

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